

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (0	Currently Amended) A temperature control system in a thermal device,
comprising: equipped with	
ar	n electrical supply network,
a	frequency converter connected to the electrical supply network by a
disconnecting device,	
a	temperature sensor,
re	sistance heating elements connected to an output of the frequency converter
by a first contactor, and	
a	motor-driven cooling gas blower connected to the output of the frequency
converter by a second contactor,	
a	temperature controller on which both of the latter connected through
contactors to the	output of a frequency converter supplied from electrical supply network
through a discon	necting device, with temperature progress in a thermal process for the
thermal device is	programmed and on a temperature controller which controls the frequency
converter, unique in that	
w	herein the frequency converter modulates effective voltage supplied to the
resistance heating	g elements and supplied to the motor-driven cooling gas blower,
wl	nerein the output of the frequency converter (F) is simultaneously connected
through the first o	contactor (SG) to at least one heating system incorporating that includes the
resistance heating	g elements, and through the second contactor (SD) to at least one cooling
system with that	includes the blower and a blower 3-phases induction motor-(MD), and

wherein the first and second contactors (<u>SG</u> and <u>SD</u>) beingare controlled by the temperature controller (<u>RT</u>).

- 2. (Currently Amended) Temperature The temperature control system as peraccording to claim 1, unique in that further comprising a transformer between the first contactor (SG) of the heating system and the resistance heating elements (R) there is a transformer (TR).
- 3. (Currently Amended) Temperature The temperature control system as peraccording to claim 1, unique in that further comprising a transformer between the second contactor (SD) of the blower and the blower motor (MD) there is a transformer (TRD).
- 4. (Currently Amended) Temperature The temperature control system as peraccording to claim 1, unique in that it is most advantageous to have the wherein a rated current of the heating and cooling systems maintain the maintains a ratio of 0.33 3.
- 5. (Currently Amended) Temperature The temperature control system as peraccording to claim 1, unique in that it is most advantageous to have the wherein a rated voltage of the heating and cooling systems maintain themaintains a ratio of 0.33 3.